Specifications

Type
Compact digital still camera with built-in flash, 5x Optical, 4x Digital and 20x Combined Zoom with Optical Image Stabilizer

Image Capture Device

Type
12.1 Megapixel, 1/1.7-inch CMOS

Total Pixels
Approx. 12.8 Megapixels

Effective Pixels
Approx. 12.1 Megapixels

Lens

Focal Length
5.2 (W) - 26.0 (T) mm (35mm film equivalent: 24-120mm)

Digital Zoom
4.0x

Focusing Range
Normal: 2.0 in. (5cm) - infinity (W), 12 in. (30cm) - infinity (T)
Auto/Manual: 1.2 in. (3cm) - infinity (W), 12 in. (30cm) - infinity (T)
Macro AF: 1.2 in. - 1.6 ft. (3-50cm) (W), 12 in. - 1.6 ft. (30-50cm) (T)
Quick: 4.9 - 66 ft. (1.5 - 20m) (W,T)

Autofocus System
TTL Autofocus, Manual Focus

Viewfinders

Optical Viewfinder
Not available

LCD Monitor
3.0-inch TFT Color LCD with wide viewing angle capacitive touch-screen panel

LCD Pixels
Approx. 922,000 dots

LCD Coverage
Approx. 100%

Aperture and Shutter

Maximum Aperture
f/1.8 (W), f/5.7 (T)

Shutter Speed
1-1/2500 sec.

15-1/2500 sec. (in Tv mode)
250-1/2500 sec. (in M mode)

Exposure Control

Sensitivity
Auto, ISO 80-12800 (in P mode)

Light Metering Method
Evaluative*, Center-weighted average, Spot**

* Facial brightness is evaluated in Face Detection AF

** Metering frame is fixed to the center

Exposure Control Method
Manual Exposure, Program Shift, Safety Shift, AE Lock

Exposure Compensation
Still Images: ±3 stops in 1/3-stop increments

Videos: ±3 stops in 1/3-stop increments (not available during shooting)

White Balance

White Balance Control
Auto*, Daylight, Cloudy, Tungsten, Fluorescent, Fluorescent H, Flash, Underwater, Custom 1, Custom 2

* Camera automatically sets the optimal ISO speed according to shooting mode.

Flash

Built-in Flash
Auto, Flash On, Slow Synchro, Flash Off

• Facial brightness is also evaluated in Face Detect.

Flash Range
1.6 ft. - 23 ft. (W), 1.6 - 7.5 ft. (T) (50cm - 7m (W), (50cm - 2.3m (T))

Image brightness may diminish depending on the shooting distance.

Recycling Time
10 sec. or less (battery voltage: 3.7 V)

Flash Exposure Compensation
± 2 stops in 1/3-stop increments

Shooting Specifications

Shooting Modes
C, M, Av, Tv, P, Hybrid Auto, Auto, SCN*[1], Creative Filters*[2], Movie*[3]

• Shooting movies is possible with the movie button

[1] Portrait, Smart Shutter[4], Star*[5], Handheld Night Scene, Underwater, Snow, Fireworks

*[2] High Dynamic Range, Nostalgic, Fish-eye Effect, Miniature Effect, Toy Camera Effect, Background Defocus, Soft Focus, Monocrhome, Super Vivid, Poster Effect
*[3] Standard, Super Slow Motion Movie
*[4] Smile, Wink Self-timer, Face Self-timer
*[5] Star Nightscape, Star Trails, Star Time-Lapse Movie

Photo Effects
My Colors Off, Vivid, Neutral, Sepia, Black & White, Positive Film, Lighter Skin Tone, Darker Skin Tone, Vivid Blue, Vivid Green, Vivid Red, Custom Color*

*Adjustment of contrast sharpness, saturation, red, green, blue and skin tone are available

Self Timer
Approx. 10-sec. delay/approx. 2-sec. delay/custom*

*Delay time (0-15 sec. (in one-second increments), 20/25/30 sec.) and number of shots (1-10 shots (in one-shot increments)) can be specified.

Wireless Control
Not available

Continuous Shooting

1.   Normal: Approx. 12.1 shots/sec.; 9.4 shots/sec* (in P mode)
2.   AF: Approx. 5.5 shots/sec. (in P mode)
3.   LV: Approx. 5.6 shots/sec. (in P mode)

- Under conditions where the flash does not fire automatically
- Differs depending on the zoom position

   *From the sixth shot

Image Storage

Storage Media
SD/SDHC/SDXC and UHS-I Memory Cards

File Format
Design rule for Camera File system, DPOF (Version 1.1) compliant

Image Recording Format
Superfine / Fine

JPEG Compression Mode
Still Image: Exif. 2.3 (JPEG)

Video: MOV (Image: H.264; Audio: Linear PCM (Stereo))

Number of Recording Pixels
Still Images:

1) 16:9 - Large: 4000 x 2248; Medium 1: 2816 x 1584; Medium 2: 1920 x 1080; Small: 640 x 360; RAW: 4000 x 2248

2) 3:2 - Large: 4000 x 2664; Medium 1: 2816 x 1880; Medium 2: 1600 x 1064; Small: 640 x 424; RAW: 4000 x 2664

3) 4:3 - Large: 4000 x 3000; Medium 1: 2816 x 2112; Medium 2: 1600 x 1200; Small: 640 x 480; Raw: 4000 x 3000

4) 1:1 - Large: 2992 x 2992; Medium 1: 2112 x 2112; Medium 2: 1200 x 1200; Small: 480 x 480; RAW: 2992 x 2992

5) 4:5 - Large: 2400 x 3000; Medium 1: 1696 x 2112; Medium 2: 960 x 1200; Small: 384 x 480; RAW: 2400 x 3000

Videos:

Full HD 1920 x 1080: 60 fps (59.94), 30 fps

Full HD Star Time-Lapse Movie: 15 fps

HD 1280 x 720: 30 fps (29.97)

Miniature Effect HD 1280 x 720: 6 fps / 3 fps / 1.5 fps

Miniature Effect 640 x 480: 6 fps / 3 fps / 1.5 fps

Super Slow Motion Movie 640 x 480: 120 fps

Super Slow Motion Movie 320 x 240: 240 fps

640 x 480: 30 fps (29.97)

Number of Recordable Images

Image data

		16:9			3:2		
		File Size (KB)	8GB	32GB	File Size (KB)	8GB	32GB
Large (L)	SF	4,507	1,729	6,980	5,134	1,515	6,118
	F	2,915	2,640	10,659	3,247	2,384	9,624
Medium 1 (M1)	SF	2,630	2,923	11,801	2,914	2,640	10,659
	F	1,814	4,234	17,091	1,945	3,961	15,989
Medium 2 (M2)	SF	1,095	6,822	27,537	899	8,187	33,044
	F	604	12,280	49,567	496	14,448	58,314
Small (S)	SF	188	35,089	141,622	221	30,703	123,919
	F	113	49,125	198,271	133	40,937	165,225
RAW	RAW	17,680	442	1,788	17,585	444	1,798

		4:3			1:1		
		File Size (KB)	8GB	32GB	File Size (KB)	8GB	32GB
Large (L)	SF	5,661	1,379	5,568	4,224	1,832	7,397
	F	3,537	2,192	8,850	2,640	2,923	11,801
Medium 1 (M1)	SF	3,173	2,431	9,814	2,365	3,274	13,217
	F	2,073	3,721	15,020	1,549	4,912	19,826
Medium 2 (M2)	SF	1,002	7,442	30,040	760	9,824	39,653
	F	558	12,927	52,176	420	16,374	66,090
Small (S)	SF	249	27,291	110,150	188	35,089	141,622
	F	150	40,937	165,225	113	49,125	198,271
RAW	RAW	17,529	446	1,804	17,415	448	1,814

		4:5		
		File Size (KB)	8GB	32GB
Large (L)	SF	3,396	2,273	9,178
	F	2,121	3,611	14,578
Medium 1 (M1)	SF	1,898	4,026	16,251
	F	1,243	6,140	24,783
Medium 2 (M2)	SF	608	12,280	49,567
	F	336	20,468	82,612
Small (S)	SF	150	40,937	165,225
	F	90	61,406	247,838
RAW	RAW	17,347	450	1,821

Note: SF=Superfine F=Fine
• The approximate number of images recordable on memory cards other than the above can be calculated by using the above figures as a reference and extrapolating accordingly.

Time of Recordable Movies

Movie data

	Miniature Effect					
	HD: 1280 x 720			640 x 480		
	5x	10x	20x	5x	10x	20x
	6 fps*2	3 fps*2	1.5 fps*2	6 fps*2	3 fps*2	1.5 fps*2
Movie Size (KB/sec.)	195	98	49	73	37	18
8GB	10 hrs. 42 min. 58 sec.	20 hrs. 34 min. 24 sec.	38 hrs. 15 min. 35 sec.	26 hrs. 45 min. 37 sec.	48 hrs. 27 min. 58 sec.	82 hrs. 18 min. 04 sec.
32GB	43 hrs. 17 min. 23 sec.	83 hrs. 06 min. 30 sec.	154 hrs. 33 min. 09 sec.	108 hrs. 05 min. 38 sec.	195 hrs. 46 min. 14 sec.	332 hrs. 26 min. 26 sec.

	Super Slow Motion Movie	
	640 x 480	320 x 240
	120 fps*2	240 fps*2
Movie size (KB/sec.)	1465	977
8GB	1 hr. 27 min. 00 sec.	2 hrs. 07 min. 47 sec.
32GB	5 hrs. 51 min. 26 sec.	8 hrs. 36 min. 11 sec.

	Other				
	Star Time-Lapse Movie (Full HD)	Full HD: 1920 x 1080		HD: 1280 x 720	640 x 480
	15 fps*2*3	60 fps*4	30 fps*1	30 fps*1	30 fps*1
Movie size (KB/sec.)	3	4288	2945	992	382
8GB	189 hrs. 46 min.	30 min. 03 sec.	43 min. 29 sec.	2 hrs. 03 min.	5 hrs. 14 min. 34

	59 sec.			55 sec.	sec.
32GB	766 hrs. 11 min. 28 sec.	2 hrs. 01 min. 27 sec.	2 hrs. 55 min. 43 sec.	8 hrs. 20 min. 32 sec.	21 hrs. 10 min. 33 sec.

[1]Actual frame rate is 29.97 fps.
[2]Playback frame rate is 30 fps.[1]
[3]Actual frame rate is 14.985 fps.
[4]Actual frame rate is 59.94 fps.

Playback Specifications

Playback Modes File
Stills & Videos:
Auto Rotate, Index Continuous Display, Image Advance (Transition Effects, Scroll Display), Rotate, Favorites, My Category, Smart Shuffle, Group Playback, Slideshow, Erase, Resume, Protect

Still Images:
Single, Index, Magnification (2-10x), Switch to other images while zoomed, Information Display, Red-eye Correction, i-Contrast, Photobook Setup, Cropping, Resize, My Colors, Face ID Info, Histogram, RGB Histogram, Focus Checker, Location Information, Overexposure Warning

Videos:
Normal Playback, Pause, Slow Motion, Skip Backward, Previous Frame, Next Frame, Skip Forward, Erase Clip, Editing, Movie Transcoding

Using the software included with the camera (ImageBrowser EX), there are 8 levels (1.8x to 1x) of playback speed for Super Slow Motion Movies possible on a computer.

Erasing Specifications

Erase Modes
Select Image, Select Range, Select All Images

• The image data in the memory card stored with the Design rule for Camera File systems format can be erased (however, protected images cannot be erased).
• Using the Movie editing function, sections of the movie can be deleted.

Interfaces

Video Out
NTSC/PAL (dedicated connector (female) with unified type of digital, audio and video), Mini-HDMI connector

Audio Out
Stereo (dedicated connector (female) with unified type of digital, audio and video)

Other
SD memory card slot; direct connection to Canon SELPHY, PIXMA Photo Printers & PictBridge compatible printers

Power Source
Battery Pack NB-6LH, Compact Power Adapter CA-DC10 (included with AC Adapter Kit ACK-DC40)

Shooting Capacity
Approx. 230 shots
Approx. 300 shots with ECO Mode

Playback Time
Approx. 4 hours

Physical Specifications

Operating Temperature
32-104°F/0-40°C

Operating Humidity
10-90%

Dimensions (W x H x D)
3.94 x 2.32 x 1.14 in. / 100.2 x 59.0 x 29.0mm

Weight
7.65 oz. / 217g (CIPA standard)
6.81 oz. / 193g (camera only)

30 display languages provided (English, German, French, Dutch, Danish, Finnish, Italian, Norwegian, Swedish, Spanish, Simplified/Traditional Chinese, Japanese, Russian, Portuguese, Korean, Greek, Polish, Czech, Hungarian, Turkish, Thai, Arabic, Romanian, Ukrainian, Farsi, Hindi, Malay, Indonesian and Vietnamese).

All data are based on Canon's Standard Test Method. Subject to change without notice.